

FACULTY PROFILE

Name of the Staff : **Dr. KANNAN Y B**
Official Address : Professor
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Personal Details:

Age : 50
Date of Birth : 10/01/1974
Sex & Marital Status : Male & Married
Citizenship : Indian
Department : PHYSICS
Date of Joining : 10/01/2008

Qualification:

Degree	Programme and Specialization	Class/CGPA	Month & Year of Passing	Institute/University
Ph.D	Physics	Highly Commended	09/2018	Madurai Kamaraj University
M.Phil	Physics	First class	05/2005	Bharathidasan University
M.Sc	Physics	First class	04/1997	The Madura College
B.Sc	Physics	First Class	04/1994	MSS Wakf Board College

Professional Experience:

Teaching Experience:

Designation	Institute/University	Period		Nature of Duties
		From	To	
Associate Professor	Arumugam Pillai Seethai Ammal College	10/01/2021		Teaching
Assistant Professor	Arumugam Pillai Seethai Ammal College	10/01/2008	09/01/2021	Teaching
Lecturer	SLS.MAVMM Ayira Vaisyar College	09/09/1998	09/01/2008	Teaching

Other Academic Credentials:

S.No	Title
1	Certificate in Computing (CIC) - Indira Gandhi National Open University - 2001.

Area of specialization:

S.No	Title
1	Material Science

Course Taught:

S.No	Course Title	U.G. or P.G
1	Mechanics and Relativity, Thermal and Statistical Physics, Electricity, Magnetism and Electromagnetism, General Physics Practical – I, Allied – I (Theory cum Practical), Allied– II (Theory cum Practical), Allied Practical – I, Optics and Spectroscopy, Atomic & Nuclear Physics, Allied Practical - II, Computer Programming in C, Communication Electronics, Elements of Theoretical Physics, General Physics Practical III, Electronics Practical-IV, Project, ES, NME, SBS	U.G

H-Index:

Research Gate	Google Scholar	Scopus	Web Of Science
4	4	4	4

Development or Training Activity:**Organized:**

S.No	Role	Title	Period		No. of Participants	Course Type	Type of Program
			From	To			
1	Convener	Importance of nano structured thin film cathode materials for lithium-ion battery applications	26/06/2020	26/06/2020	100		Webinar
2	Convener(s)	RECENT TRENDS IN ENERGY MATERIALS" (RTEM – 2021)	14/07/2021	15/07/2021	106		National Virtual
3	Convener	Quantum theory of radiation	08/06/2020	12/06/2020	72		e-Quiz

Attended:

S.No	Title	Period		Venue	Course Type	Type of program
		From	To			
1	International Workshop on Advanced Energy Materials (IWAEM – 2012)	09/02/2012	10/02/2012	Alagappa University, Karaikudi		Workshop
2	Computational Physics	30/08/2013	31/08/2013	Madurai Kamaraj University, Madurai		Workshop

S.No	Title	Period		Venue	Course Type	Type of program
		From	To			
3	Current trends in Physics	21/09/2014	21/09/2014	Zakhir Hussain College, Ilanyakudi		State level
4	NATINONAL CONFERENCE ON RECENT TRENDS IN ADANCED ENERGY MATERIALS	10/03/2010	11/03/2010	Alagappa University, Karaikudi		National Conference
5	MATERIAL CHARACTERISATION TECHNIQUES	22/12/2010	22/12/2010	Madura College, Madurai		State level
6	Plasma Physics	24/02/2011	24/02/2011	Thiagarajar College, Madurai		State level
7	Intl conf on momentous role of nanomaterials in renewable energy devices (IC MNRE-2018)	01/03/2018	02/03/2018	Alagappa University, Karaikudi		International Conference
8	National Seminar on Advanced Topics in Physics (NSATP – 19)	06/03/2019	06/03/2019	PG and Research Department of Physics, Jamal Mohamed College (Autonomous), Tiruchirappalli		National Seminar
9	National Workshop on Theory and Practice of X-ray diffraction and Scanning electron microscope	30/05/2019	31/05/2019	Sethu Institute of Technology, Madurai		National Workshop
10	Semiconductors, Surfaces, Alloys Modeling and Preparations (SSAMAP – 2019)	06/12/2019	06/12/2019	Sree Sevugan Annamalai College, Devakottai		National Conference
11	59th ORIENTATION Course	16/12/2008	12/01/2009	UGC – ACADEMIC STAFF COLLEGE, BHARATHIDAS EN UNIVERSITY, TRICHIRAPPAL LI	Orientation Programme	Offline mode
12	REFRESHER Course in Physics	03/11/2009	23/11/2009	UGC – ACADEMIC STAFF COLLEGE, MADURAI KAMARAJ UNIVERSITY	Refresher Course	Offline mode
13	Refresher course in Material Sciences	12/07/2017	01/08/2017	Kannur University, Kerala	Refresher Course	Offline mode
14	ARPIT - "Refresher course – Curriculum Design and e-content development"	01/11/2018	28/02/2019	Central University, Kerala - Online mode	Refresher Course	Online mode

S.No	Title	Period		Venue	Course Type	Type of program
		From	To			
15	Recent Trends in Physics for Energy and Environment (RTPEE – 2020)	13/02/2020	26/02/2020	UGC – ACADEMIC STAFF COLLEGE, MADURAI KAMARAJ UNIVERSITY	Refresher Course	Offline mode
16	Managing online classes and co-creating MOOCS	20/04/2020	06/05/2020	Teaching Learning centre, Ramanujan college, University of Delhi.	FDP	Online mode
17	Enhancing research effectiveness using Scopus, Science direct & Mendeley for faculties	01/05/2020	01/05/2020	Faculty development centre, Kurukshetra University, Kurukshetra	FDP	Online
18	Online Course Design, Development and Delivery	29/05/2020	31/05/2020	Human Resource Development Centre, University of Hyderabad	Professional Development Programme	Online mode
19	ADVANCED CONCEPTS FOR DEVELOPING MOOCS	02/07/2020	17/07/2020	Teaching Learning Centre and Research development and Services cell, Ramanujan college.	FDP	Online mode
20	Capacity Building Programme for faculty members and research scholars	12/06/2020	23/06/2020	Alagappa University	Professional Development Programme	Online mode
21	E-content development	28/10/2018	24/12/2018	SWAYAM	Professional Development Programme	Online mode
22	Nanotechnology, Science and Applications	01/07/2019	01/09/2019	NPTEL	Professional Development Programme	Online mode
23	Solar Photovoltaic Fundamentals Technology and Applications	01/07/2019	01/09/2019	NPTEL	Professional Development Programme	Online mode
24	Physics of Materials	01/07/2019	01/10/2019	NPTEL	Professional Development Programme	Online mode
25	Digital productivity and AI fluency	28/08/2023	01/09/2023	Naan Muthalvan	FDP	Online mode

Expert Lecture Delivered/Judge:

S.No	Title	Period		Venue
		From	To	
1	Charge Particle – Electron	04/03/2011	04/03/2011	Ananda College, Devakottai
2	Energy:- explore, harness and conserve	27/07/2012	27/07/2012	A.P.S.A.College

S.No	Title	Period		Venue
		From	To	
3	Weather and climate – society and culture.	18/09/2015	18/09/2015	A.P.S.A.College
4	Science, Technology, Innovation for Sustainable Development” – Food and Agriculture	26/07/2016	28/07/2016	A.P.S.A.College
5	Science, Technology, Innovation for Sustainable Development” – Food and Agriculture	05/10/2017	06/10/2017	A.P.S.A.College
6	Fundamentals of Nano Science	04/10/2017	04/10/2017	Zakir Hussain College, Ilayangudi.
7	Society, Culture and Livelihoods	24/07/2018	26/07/2018	A.P.S.A.College
8	Society, Culture and Livelihoods	30/07/2019	31/07/2019	A.P.S.A.College
9	Newton's Gravitation law	07/10/2014	07/10/2014	Senthamarai College, Madurai
10	In-Service Training Program for Science Teachers through TNSCST (Phase – II)	28/07/2022	28/07/2022	Saradha College, Amaravathi Pudur, Karaikudi

Other Credentials:

S.No	Title
1	Received appreciation certificate from TANSACS for organizing New India @75 competitions/activities as
2	Received appreciation certificate for organizing blood donation camp from Dean, Sivagangai Medical College and
3	Received appreciation certificate for organizing blood donation camp from Sivagangai District Collector, Ms.Asha

Membership in Professional bodies:

S.No	Name of the society	Grade of Membership
1	THE INDIAN ASSOCIATION OF PHYSICS TEACHERS	Life Member

Research Achievements:

International Journal Publications:

S.No	Title of the Paper	Name of the Journal	Vol.No & Page No.	Month & Year	Current Status
1	An experimental analysis of the correlation between electronic structure and room temperature magnetism in Cu ²⁺ doped CoFe ₂ O ₄ spinel ferrite	Applied Physics A	128 (8), 1-15	07/2022	Published
2	Influence of Zn ²⁺ Doping on CaFe ₂ O ₄ Spinel Ferrites: An Analysis of Experimental Charge Density and Magnetism	Journal of superconductivity and novel magnetism	35, 1281–1298	02/2022	Published
3	Effect of Ca ²⁺ doping on the electronic charge density and magnetic properties of ZnFe ₂ O ₄ spinel ferrites	Journal of Materials Science: Materials in Electronics	33, 4116–4131	01/2022	Published

S.No	Title of the Paper	Name of the Journal	Vol.No & Page No.	Month & Year	Current Status
4	Structural Rietveld Refinement of Nickel Ferrite Nanoparticles Prepared by Chemical Method	Journal of Nanoscience and Technology	Volume 5 Issue 2 655–657	04/2019	Published
5	Effect of sintering on dielectric and AC conductivity properties of Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ nano ferrite particles.	Journal of the Australian ceramic society	53(2), 577-581	05/2017	Published
6	Structural, Magnetic, Optical, and MEM Studies on Co-precipitated X _{0.4} Zn _{0.6} Fe ₂ O ₄ (X = Co, Mn) Nanoferrite Particles	Journal of Superconductivity and Novel Magnetism	30(9), 2673-2682	03/2017	Published
7	Structural, magnetic and optical characterization of Ni _{0.8} Zn _{0.2} Fe ₂ O ₄ nano particles prepared by co-	Physica B	502, 181-186	12/2016	Published
8	Sintering effect on structural, magnetic and optical properties of Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ ferrite nano particles	Journal of Magnetism and Magnetic Materials,	423, 217-225	02/2017	Published
9	Study of various sites interactions using maximum entropy method on mechanically alloyed Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ nano ferrite particles sintered from 1100°C to 1400°C	Journal of Superconductivity and Novel Magnetism	30(2), 407-419	09/2016	Published
10	Synthesis and characterization of some ferrite nanoparticles prepared by co-precipitation method	Journal of Materials Science: Materials in Electronics	27(11), 12000-12008	07/2016	Published
11	X-ray determination of charge transfer in solar grade GaAs	Journal of Physics and Chemistry of Solids	69, 83-86	08/2007	Published

National Conference Publications:

S.No	Title of the Paper	Name of the Conference	Organizer	Month & Year
1	Effect of low sintering temperature on Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ nano ferrite particles	National Web conference on Synthesis and Characterization of Novel Materials	PG & Research Department of Physics, Muthurangam Govt.Arts College,Vellore-632	07/2020
2	Structural and magnetic properties of Ni _{0.4} Zn _{0.6} Fe ₂ O ₄ prepared by co-precipitation method	National conference on Recent Trends in Solar Energy and Nanoscience (SENS – 2019)	Department of Physics & Chemistry, G.T.N. Arts College, Dindigul	03/2019
3	Dielectric and optical properties of Ni _{0.4} Zn _{0.6} Fe ₂ O ₄ prepared by co-precipitation method	Recent Advances in Material Science (RAMS – 2019)	Department of Physics, G.T.N. Arts College, Dindigul	03/2019
4	"Bond strength analysis of zinc substituted cobalt ferrite nano particles prepared by co-precipitation method"	national seminar on new materials research and nanotechnology (NSNMRN – 2018)	Department of Physics, Sethupathy Government College	03/2018
5	"NANOFERRITE PARTICLES – A BOON TO PHARMACEUTICAL INDUSTRY".	National seminar on BioVision 2014 (Recent trends and future perspectives of biosciences)	Arumugam Pillai Seethai Ammal College, Tiruppattur	09/2014
6	???????????????????? ?????? ???? ???????? ?????? ????? ?????? ?????????????	?????????? ?????????? ???????????????????????? ????????????? ????????????	?????? ?????????? ??????	06/2011

International Conference Publications:

S.No	Title of the Paper	Name of the Conference	Organizer	Month & Year
1	Synthesis and characterization of nickel zinc ferrite (Ni _{0.5} Zn _{0.5} Fe ₂ O ₄) particles sintered at low temperatures	International conference on Advanced Materials for Sustainable Energy and Sensors (INCAMSES -2019)	Department of Physics, Alagappa University, Kraikudi	09/2019

International Book Publishing:

S.No	Title Of The Book	Name Of The Publisher	Type	Year Of Publishing
1	Synthesis and characterization of NiFe ₂ O ₄ nano particles prepared by the chemical reaction method	Materials Research Forum	International	2016

Project Guidance:

Degree	Number of Projects
UG Degree	15

Other Contribution work to the Institute/Organization:

S.No	Name	Role	Period		Nature of Duties
			From	To	
1	Value Education	Member	06/16/2009	31/05/2016	Inculcating importance of value Edu. to Stud.
2	Examination Committee	Member	06/16/2009	31/05/2013	Conducting internal exams
3	Electronics Club and Photography Club	Member	06/16/2009	31/05/2014	creating interest in this fields
4	Canteen Committee	Member	06/16/2010	31/05/2016	To maintain Quality, Hygienic
5	Public relation and press committee	Member	06/16/2014	31/05/2016	communication to media
6	Red Ribbon club	Memner	06/16/2016	31/05/2019	HIV/AIDS awareness
7	Red Ribbon club	Convener	06/17/2019	29/12/2022	HIV/AIDS awareness
8	Eco club	Member	06/16/2016	31/05/2018	Maintain the ecology
9	Book purchase committee	Member	06/16/2016	31/05/2018	Purchasing books
10	Swachh Bharath	Member	06/17/2018	31/05/2019	cleanliness
11	MOOCs	Department mentor	06/17/2019	31/05/2021	Facilitate students
12	Career guidance and entry in service	Member	06/16/2021	29/12/2022	Facilitate students

S.No	Name	Role	Period		Nature of Duties
			From	To	
13	National Institution Ranking Framework	Co-convener	06/16/2021	29/12/2022	Facilitate in uploading data